

REMARKS

The amendments to the claims do not add new matter. They are consistent with the original specification, claims and drawings.

Applicant respectfully submits that in view of the amendments made and the remarks that follow, the application is in condition for allowance. Applicant respectfully requests allowance of this application.

To emphasize applicants' invention applicants have cancelled all of the pending claims and added new claims 36-53. The primary reference Tantram (USP 5,070,721) and the secondary reference Tindall et al (USP 6,351,982) do not have the structure set forth in claim 36. Claim 36 recites language which encompasses various embodiments of the invention. Claim 36 recites language encompassing a solid molded base (1) which on one side is substantially planar (see Fig.3) and on the other side defines a metal lead frame region (see Fig. 3 dash lines and 2 on Fig. 2) with insulation (9 in Figs 1 & 4) thereon and the metal lead frame is molded into the base adjacent the insulation. Neither of the cited references has the second insulation layer (8 in Figs 1 & 4) overlying the sensor (4.) Further, neither has the cover (14.) or a gas sensor (4) carried on the metal lead frame and displaced in a first direction from the insulating layer (8). Therefore, claim 36 and its dependent claims 37- 44 are not taught, disclosed, suggested or contemplated by these patents nor would a person of ordinary skill in the art be able to construct applicants sensor by what is disclosed by Tantram and/or Tindall et al. Therefore it is requested that claims 36-44 be allowed.

Tantram does not disclose, suggest or contemplate a gas sensor structure as set forth by the present invention nor would a person of ordinary skill in the art be able to construct applicants sensor by what is disclosed by Tantram and/or Tindall et al. Tantram and Tindall et al do not have or contemplate having the gas sensing device set forth in claims 45 or 46. Claim 45 recites language encompassing various embodiments of the invention. Claim 45 recites language encompassing a molded flameproof plastic housing (1) having a closed base and an open top. The housing includes an integral wall (10) which surrounds and defines a cavity with the housing base. The cavity has an upper first shelf (11) and an integral cavity floor. An all-metal electrical conducting circuit lead frame (2) is molded with the housing and encapsulated by the housing base. The lead frame has first, second and third lead lines (22-24) separated from each other, with the second line being located between the first and third lines. The first, second and third lines have a first end that extends to or out of the exterior surface of the housing base. A detector (4) is mounted in the cavity

Appl. No. 10/535,567

Response to Action

mailed April 22, 2009

adjacent the cavity floor and connects the first lead line with the third or second lead line. A porous metal cover (14) is attached to the housing open end to close the housing. At least one filter (6 or 7) is in the housing between the cover and the detector; and a metal mesh flame arrestor (3) is in the housing between the cover and the detector so that said gas passes through the cover, filter and the flame arrestor before reaching the detector

Claim 46 recites language encompassing a structure wherein the cavity floor defines a first recess (12) surrounded by a second shelf (11a) The first recess (12) has a first recess floor defining at least a second recess (13). The second recess (13) containing a first element (9) which acts as a shock absorber and insulator; and the first and third lead lines have an intermediate section (31 and 30 of Fig. 5a) extending toward the center of the housing base and toward each other and separated from each other. Therefore claims 45 and 46 and their dependent claims 47- 53 are not taught, disclosed, suggested or contemplated by these patents nor would a person of ordinary skill in the art be able to construct applicants device by what is disclosed by Tantram and/or Tindall et al. Therefore it is requested that claims 45-53. be allowed.

Neither of the Daeche et al (WO 00/00820 English translation) nor Doncaster et al (EP 0940680 A2) disclose, suggest, teach or contemplate the structure set forth in claims 36-53 and therefore it is submitted that the application is now in condition for allowance. and an early notice of allowance is requested.

Dated: October 13, 2009

Respectfully submitted,

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